

Com 1 42-045-00070

Monroe Energy, LLC
Trainer Refinery
4101 Post Road
Trainer, PA 19061
(610) 364-8000

July 7, 2016

Mr. James Rebarchak
Regional Manager - Air Quality
Commonwealth of Pennsylvania
Pennsylvania Depart of Environmental Protection
2 East Main St.
Norristown, PA 19401

JUL 1 4 2016

Air Protection Division

RE: MONROE ENERGY TRAINER REFINERY 2016 SEMI ANNUAL LDAR REPORTS

Dear Mr. Rebarchak:

As required by Title 40, Part 60 Monroe Energy Trainer Refinery hereby submits the following Semi-Annual LDAR Reports for the time period January 1, 2016 to June 30, 2016

- 1. NSPS LDAR Report, per 40 CFR §60.480, Subpart VV:
  - Compliance Monitoring Summary
  - Compliance Repair Delay List
  - Repair Delayed History Components Repaired During Reporting Period
  - Summary of Components Added and Deleted During Reporting Period
- 2. REFINERY MACT LDAR Report, per 40 CFR Part 63, Subpart CC:
  - Compliance Monitoring Summary
  - Compliance Repair Delay List
  - Repair Delayed History Components Repaired During Reporting Period.
  - Summary of Components Added and Deleted During Reporting Period.
- 3. GGGa LDAR Report, per 40 CFR §60.590a, Subpart GGGa:
  - Compliance Monitoring Summary
  - Compliance Repair Delay List
  - Repair Delayed History Components Repaired During Reporting Period.

Summary of Components Added and Deleted During Reporting Period.

As required by the Consent Decree H-05-0258, paragraph 236, Monroe Energy is hereby notifying you that the report leak rates contained herein for valves and pumps are those applicable regulatory leak definitions in Title 40 CFR, 60.482. In addition to the aforementioned Consent Decree, all valves with a leak rate of over 10,000 ppm that required a Drill and Tap were successfully repaired to a leak rate less than 500 ppm and were not placed on Delay of Repair list.

Subject to the penalties of Title 18 Pa. C.S. Section 4904 and 35 P.S. Section 4009 (b) (2), I certify under penalty of law that, based on information and belief formed after reasonable inquiry, the statements and information contained in this form are true, accurate, and complete.

Should you have any questions or comments regarding this report, please contact Stephani Ski Szymanski, Environmental Engineer and Program Lead, at (610) 364-8073.

Sincerely

Jeffrey K. Warmann CEO and President

#### Enclosures (1)

Cc:

Ms. Zelma Maldonado
Associate Director,
Office of Air Enforcement,
Compliance and Assistance
USEPA Region III
Air Protection Division
3AP20
1650 Arch Street
Philadelphia, Pa 19103-1129

# MONROE ENERGY TRAINER REFINERY GGGa SEMI ANNUAL LDAR REPORT

SUMMARY REPORT

REPORT DATE: JULY 7, 2016

Regulation	ComplianceGroup	Class	Month	Monitored	Leaked	Late Repair
GGGa	543 CRUDE					
		PUMP	1	4	0	0
		PUMP	2	4	0	0
		PUMP	3	4	0	0
		PUMP	4	4	0	0
		PUMP	5	4	0	0
		PUMP	6	4	0	0
		RELIEF	2	8	0	0
		RELIEF	5	8	0	0
		RELIEF	6	22	0	0
		VALVE	1	6	0	0
		VALVE	2	1,071	0	0
		VALVE	5	1,079	5	0
		VALVE	6	21	0	0
				2,239	<u>5</u>	<u>o</u>
GGGa	544 CRUDE					
		PUMP	1	15	0	0
		PUMP	2	15	0	0
		PUMP	3	15	0	0
		PUMP	4	15	0	0
		PUMP	5	15	0	0
		PUMP	6	15	0	0
		RELIEF	2	8	0	0
		RELIEF	5	8	0	0
		RELIEF	6	10	0	0
		VALVE	1	11	0	0
		VALVE	2	1,170	10	0
		VALVE	3	13	0	0
		VALVE	4	15	1	0
		VALVE	5	1,180	3	0
		VALVE	6	19	0	0
				2,524	<u>14</u>	<u>o</u>
GGGa	544 VACUUM					
		PUMP	1	2	0	0
		PUMP	2	2	0	0
		PUMP	3	2	0	0
		PUMP	4	2	0	0
		PUMP	5	2	0	0
					00033	

		PUMP	6	2	0	0
		RELIEF	1	1	1	0
		RELIEF	2	7	0	0
		RELIEF	3	1	0	0
		RELIEF	4	2	0	0
		RELIEF	5	7	0	0
		RELIEF	6	9	0	0
		VALVE	1	1	0	0
		VALVE	2	392	0	0
		VALVE	5	392	0	
		VALVE	6	5	0	0
				3	U	0
				829	<u>1</u>	<u>0</u>
				222	<b>-</b>	ū
<u>GGGa</u>	BOILER 14					
		VALVE	6	49	1	0
				<u>49</u>	<u>1</u>	<u>o</u>
GGGa	<b>BOILERS 9 &amp; 10</b>					
-	BOILERS 9 & 10	DELLES				
		RELIEF	3	4	0	0
		RELIEF	6	4	0	0
		VALVE	1	2	0	0
		VALVE	2	431	1	0
		VALVE	3	431	0	0
		VALVE	4	1	0	0
		VALVE	5	1	0	0
		VALVE	6	435	0	0
				<u>1,309</u>	<u>1</u>	<u>o</u>
<b>GGGa</b>	FLARE GAS RECOVERY					
		PUMP	1	6		
		PUMP	2	6	0	0
		PUMP	3	7	0	0
		PUMP		7	0	0
		PUMP	4	7	0	0
		PUMP	5	7	0	0
		RELIEF	6	7	0	0
			1	20	0	0
		RELIEF	6	20	0	0
		VALVE	1	1,043	0	0
		VALVE	2	10	0	0
		VALVE	3	1,053	1	0
		VALVE	4	2	0	0
		VALVE	5	2	0	0
		VALVE	6	1,054	1	0
				22/22/2007/00		
				3,245	<u>2</u>	<u>0</u>

PUMP	1	1	0	0
PUMP	2	1	0	0
PUMP	3	1	0	0
PUMP	4	1	0	0
PUMP	5	1	0	0
PUMP	6	1	0	0
RELIEF	1	11	0	0
RELIEF	4	11	0	0
VALVE	1	620	4	0
VALVE	2	4	0	0
VALVE	3	4	0	0
VALVE	4	618	1	0
VALVE	5	2	0	0
VALVE	6	3	0	0
		<u>1,279</u>	<u>5</u>	<u>0</u>
	_	11,474	29	0
		2		

Grand Total:

MONROE ENERGY TRAINER REPORT GGGa SEMI ANNUAL LDAR REPORT COMPONENTS ON DELAY OF REPAIR

REPORT DATE: JULY 7, 2016

TAG	UNIT	CLASS	DATE PLACED ON DELAY
8029	544 VACUUM	RELIEF	1/14/2016
13510	BOILERS 9&10	VALVE	2/24/2016
5507	VGO	VALVE	2/4/2016
		TOTAL:	3

MONROE ENERGY TRAINER REPORT GGGa SEMI ANNUAL LDAR REPORT OFF REPAIR OF DELAY REPORT DATE: JULY 7, 2016

TAG	UNIT	ON DELAY	OFF DELAY
8029	544 VACUUM	1/14/2016	4/26/2016
5507	VGO	2/4/2016	4/5/2016
		TOTAL:	2

MONROE ENERGY TRAINER REPORT GGGa SEMI ANNUAL LDAR REPORT

ADDED AND DELETED

REPORT DATE: JULY 7, 2016

UNIT	CLASS	ADDED	DELETED
543 CRUDE	PRESSURE RELIEF DEVICE	0	0
543 CRUDE	PUMP	0	0
543 CRUDE	VALVE	8	0
544 CRUDE	PRESSURE RELIEF DEVICE	0	0
544 CRUDE	PUMP	0	0
544 CRUDE	VALVE	16	10
544 VACUUM	PRESSURE RELIEF DEVICE	1	1
544 VACUUM	PUMP	0	0
544 VACUUM	VALVE	2	0
BOILER 14	VALVE	48	0
BOILERS 9 & 10	PRESSURE RELIEF DEVICE	0	0
BOILERS 9 & 10	VALVE	4	0
FLARE GAS RECOVERY	COMPRESSOR	0	0
FLARE GAS RECOVERY	PRESSURE RELIEF DEVICE	0	0
FLARE GAS RECOVERY	PUMP	1	0
FLARE GAS RECOVERY	VALVE	11	0
VGO	COMPRESSOR	0	0
VGO	PRESSURE RELIEF DEVICE	0	0
VGO	PUMP	0	, O
VGO	VALVE	0	1
		TOTAL 91	12

MONROE ENERGY TRAINER REFINERY
NSPS EPAVV LDAR SEMI ANNUAL REPORT

SUMMARY

REPORT DATE: JULY 7, 2016

REGULATION	<u>UNIT</u>	CLASS	MONTH	MONITORED	LEAKED	LATE REPAIR
EPAVV	<u>543 CRUDE</u>					
		PUMP	1	4	0	0
		PUMP	2	4	0	0
		PUMP	3	4	0	0
		PUMP	4	4	0	0
		PUMP	5	4	0	0
		PUMP	6	4	0	0
		RELIEF	2	8	0	0
		RELIEF	5	8	0	0
		RELIEF	6	22	0	0
		VALVE	1	6	0	0
		VALVE	2	1,071	0	0
		VALVE	5	1,079	0	0
		VALVE	6	21	0	0
				2,239	<u>o</u>	<u>0</u>
EPAVV	544 CRUDE					
		PUMP	1	15	0	0
		PUMP	2	15	0	0
		PUMP	3	15	0	0

		PUMP	4	15	0	0
		PUMP	5	15	0	0
		PUMP	6	15	o	0
		RELIEF	2	8	0	0
		RELIEF	5	8	0	0
		RELIEF	6	10	0	0
		VALVE	1	11	0	0
		VALVE	2	1,170	2	0
		VALVE	3	13	0	0
		VALVE	4	15	0	0
		VALVE	5	1,180	0	0
		VALVE	6	19	Ö	0
		1)		<u>2,524</u>	<u>2</u>	<u>o</u>
EPAVV	544 VACUUM					
		PUMP	1	2	0	0
		PUMP	2	2	0	0
		PUMP	2	2		0
					0	
		PUMP	3	2	0	0
		PUMP	3	2	0 0	0
		PUMP PUMP	3 4 5	2 2	0 0 0	0 0

		RELIEF	3	1	0	0
		RELIEF	4	2	0	0
		RELIEF	5	7	0	0
			528	6.	Ü	U
		RELIEF	6	9	0	0
					Ü	U
		VALVE	1	1	0	0
			-	*	0	U
		VALVE	2	392	0	0
			<b>不</b> 學	27.5	Ü	Ü
		VALVE	5	392	0	
			3	332	U	0
		VALVE	6	E	0	
		SAUTAT	0	5	0	0
				220	2	72
				<u>829</u>	<u>1</u>	<u>0</u>
EPAVV	ALKY					
LIAVV	ALKI					
		PUMP	4	20		
		POMP	1	28	0	0
		DUMAN	12			
		PUMP	2	28	0	0
		PUMP	3	28	0	0
		PUMP	4	28	0	0
		DUMAN	12			
		PUMP	5	28	0	0
		5115.55	925			
		PUMP	6	28	0	0
		RELIEF	2	38	0	0
		RELIEF	5	38	0	0
		RELIEF	6	9	0	0
		VALVE	1	12	0	0
		VALVE	2	3,405	5	0
		VALVE	3	79	0	0
		VALVE	4	5	0	0

		VALVE	5	3,404	2	0
		VALVE	6	25	0	0
				7,183	7	<u>0</u>
EPAVV	AMINE					
		PUMP	1	1	0	0
		PUMP	2	2	0	0
		PUMP	3	2	0	0
		PUMP	4	2	0	0
		PUMP	5	2	0	0
		PUMP	6	2	0	0
		RELIEF	1	6	0	0
		RELIEF	4	6	0	0
		VALVE	1	349	0	0
		VALVE	2	8	0	0
		VALVE	3	8	0	0
		VALVE	4	357	0	0
				<u>745</u>	<u>o</u>	<u>0</u>
EPAVV	<u>AWWTP</u>					
		VALVE	1	140	0	0
		VALVE	4	140	0	0
				<u>280</u>	<u>o</u>	<u>o</u>
EPAVV	BLEND					
		PUMP	1	16	0	0

		PUMP	2	16	0	0
		PUMP	3	16	0	0
		PUMP	4	16	0	0
		PUMP	5	16	0	0
		PUMP	6	16	0	0
		RELIEF	1	16	0	0
		RELIEF	4	16	0	0
		RELIEF	6	18	0	0
		VALVE	1	1,261	0	0
		VALVE	4	1,261	Ö	0
		VALVE	5	1	0	0
				2,669	<u>o</u>	<u>0</u>
<u>EPAVV</u>	BOILER			2,669	<u>o</u>	<u>0</u>
<u>EPAVV</u>	BOILER	RELIEF	2	<b>2,669</b>	<b>0</b>	<b>0</b>
<u>EPAVV</u>		RELIEF	2			
<u>EPAVV</u>				1	0	0
<u>EPAVV</u>		RELIEF	3	1	0	0
EPAVV		RELIEF	3	1 1	0 0	0 0
EPAVV		RELIEF  VALVE	3 6 2	1 1 1 78	0 0	0 0 0
EPAVV		RELIEF  VALVE  VALVE	3 6 2 3	1 1 1 78	0 0 0	0 0 0
EPAVV		RELIEF  VALVE  VALVE	3 6 2 3	1 1 78 78	0 0 0 0	0 0 0 0

		RELIEF	5	7	0	0
		RELIEF	6	2	o	0
		VALVE	2	298	1	0
		VALVE	3	1	0	0
		VALVE	4	1	0	0
		VALVE	5	298	0	0
				<u>614</u>	1	<u>o</u>
<u>EPAVV</u>	DESALT					
		PUMP	1	10	0	0
		PUMP	2	10	0	0
		PUMP	3	10	0	0
		PUMP	4	10	0	0
		PUMP	5	10	0	0
		PUMP	6	10	0	0
		RELIEF	1	12	0	0
		RELIEF	4	12	0	0
		RELIEF	6	9	0	0
		VALVE	1	815	0	0
		VALVE	2	2	0	0
		VALVE	4	811	0	0
		VALVE	6	8	0	0
				<u>1,729</u>	<u>o</u>	<u>0</u>
EDAVA	DIECEI					

		PUMP	1	11	0	0
		PUMP	2	11	0	0
		PUMP	3	11	0	0
		PUMP	4	11	0	0
		PUMP	5	. 11	0	0
		PUMP	6	11	0	0
		RELIEF	1	9	0	0
		RELIEF	4	9	0	0
		RELIEF	6	7	0	0
		VALVE	1	792	ī	0
		VALVE	2	1	0	0
		VALVE	3	1	0	0
		VALVE	4	792	0	0
		VALVE	6	6	0	0
				1,683	<u>1</u>	<u>0</u>
EPAVV	FCC					
		PUMP	1	19	0	0
		PUMP	2	23	0	0
		PUMP	3	23	0	0
		PUMP	4	25	0	0
		PUMP	5	25	0	0
		PUMP	6	25	0	0
		RELIEF	2	25	0	0

		RELIEF	3	2	0	0
		RELIEF	5	33	0	0
		RELIEF	6	8	0	0
		VALVE	2	1,965	1	0
		VALVE	3	111	0	0
		VALVE	4	434	0	0
		VALVE	5	2,283	0	0
		VALVE	6	13	0	0
				5,014	1	<u>0</u>
EPAVV	FLARE					
		DUMB			_	
		PUMP	1	3	0	0
		PUMP	2	3	0	0
		PUMP	3	3	0	0
		PUMP	4	3	0	0
		PUMP	5	3	0	0
		PUMP	6	3	0	0
		VALVE	1	3	0	0
		VALVE	3	221	0	0
		VALVE	6	221	0	0
				463	<u>o</u>	<u>0</u>
EPAVV	<u>ISOCRK</u>					
		COMPR	1	1	0	0
		COMPR	2	1	0	0

COMPR	3	ī	0	0
COMPR	4	1	0	0
COMPR	5	1	0	0
COMPR	6	1	0	0
CONECT	1	1	0	0
CONECT	3	1	1	0
PUMP	1	18	0	0
PUMP	2	18	0	0
PUMP	3	18	0	0
PUMP	4	18	0	0
PUMP	5	18	0	0
PUMP	6	18	0	0
RELIEF	1	57	1	0
RELIEF	2	2	0	0
RELIEF	3	1	0	0
RELIEF	4	56	0	0
RELIEF	6	4	0	0
VALVE	1	3,112	2	0
VALVE	2	13	0	0
VALVE	3	17	0	0
VALVE	4	3,119	1	0
VALVE	5	6	o	0

		VALVE	6	10	0	0
				<u>6,513</u>	<u>5</u>	<u>0</u>
EPAVV	<u>KERO</u>					
		PUMP	1	9	0	0
		PUMP	2	9	0	0
		PUMP	3	9	0	0
		PUMP	4	9	0	0
		PUMP	5	9	0	0
		PUMP	6	9	o	0
		RELIEF	1	31	0	0
		RELIEF	4	30	0	0
		RELIEF	6	8	0	0
		VALVE	1	1,520	0	0
		VALVE	4	1,520	0	0
		VALVE	5	1	0	0
		VALVE	6	22	0	0
				<u>3,186</u>	<u>o</u>	<u>0</u>
EPAVV	LOWLN					
		PUMP	1	6	0	0
		PUMP	2	6	0	0
		PUMP	3	6	0	0
		PUMP	4	6	0	0
		PUMP	5	6	0	0

		PUMP	6	6	0	0
		RELIEF	1	6	0	0
		RELIEF	4	6	0	0
		VALVE	1	577	0	0
		VALVE	4	574	0	0
		VALVE	6	2	0	0
				<u>1,201</u>	<u>0</u>	<u>o</u>
EPAVV	MARINE					
		RELIEF	2	8	0	0
		RELIEF	5	8	0	0
		RELIEF	6	1	0	0
		VALVE	2	185	0	0
		VALVE	5	179	0	0
		VALVE	6	29	0	0
				<u>410</u>	<u>0</u>	<u>o</u>
EPAVV	<u>NAPHTH</u>					
		PUMP	1	16	0	0
		PUMP	2	16	0	0
		PUMP	3	16	0	0
		PUMP	4	16	0	0
		PUMP	5	16	0	0
		PUMP	6	16	0	0
		RELIEF	3	13	0	0

		RELIEF	6	20	0	0
		VALVE	1	2	0	0
		VALVE	2	2	0	0
		VALVE	3	1,506	3	0
		VALVE	4	4	0	0
		VALVE	5	4	2	
		VALVE	6	1,517	0	0
		TALKE.	0	1,317	Ü	0
				3,164	<u>3</u>	<u>o</u>
EPAVV	PLATFO					
		COMPR	1	1	0	0
		COMPR	2	1	0	0
		COMPR	3	1	0	0
		COMPR	4	1	0	0
		COMPR	5	1	0	0
		COMPR	6	1	0	0
		CONECT	1	1	0	0
		CONECT	2	1	0	0
		CONECT	3	1	0	0
		PUMP	1	10	0	0
		PUMP	2	10	0	0
		PUMP	3	10	0	0
		PUMP	4	10	0	0
		PUMP	5	10	0	0

		PUMP	6	10	0	0
		RELIEF	3	30	0	0
		RELIEF	6	30	0	0
		VALVE	1	5	0	0
		VALVE	2	5	0	0
		VALVE	3	2,196	0	0
		VALVE	4	11	0	0
		VALVE	5	10	0	0
		VALVE	6	2,197	0	0
				4,553	<u>o</u>	<u>0</u>
EPAVV	PRORCL					
		PUMP	1	1,	0	0
		PUMP	2	ī	0	0
		PUMP	3	1	0	0
		PUMP	4	1	0	0
		PUMP	5	1	0	0
		PUMP	6	1	0	0
		RELIEF	3	3	0	0
		RELIEF	6	3	0	0
		VALVE	1	1	0	0
		VALVE	2	1	0	0
		VALVE	3	313	2	0

		VALVE	4	2	0	0
		VALVE	5	2	0	0
		VALVE	6	313	0	0
				644	<u>2</u>	<u>0</u>
EPAVV	PROREC					
		RELIEF	2	12	0	0
		RELIEF	5	12	0	0
		RELIEF	6	1	0	0
		VALVE	2	644	1	0
		VALVE	3	1	0	0
		VALVE	4	1	0	0
		VALVE	5	644	4	0
		VALVE	6	4	0	0
				1,319	<u>5</u>	<u>o</u>
EPAVV	PROSTO					
		PUMP	1	6	0	0
		PUMP	2	6	0	0
		PUMP	3	6	0	0
		PUMP	4	6	0	0
		PUMP	5	6	Ō	0
		PUMP	6	6	0	0
		RELIEF	1	21	0	0
		RELIEF	4	20	0	0

		RELIEF	6	-1	0	0
,		VALVE	1	540	1	0
		VALVE	2	2	0	0
		VALVE	3	1	0	0
		VALVE	4	539	0	0
				<u>1,160</u>	<u>1</u>	<u>0</u>
EPAVV	REFORM					
		PUMP	1	8	o	0
		PUMP	2	8	0	0
		PUMP	3	8	0	0
		PUMP	4	8	0	0
		PUMP	5	8	0	0
		PUMP	6	8	0	0
		RELIEF	2	11	o	0
		RELIEF	5	11	0	0
		RELIEF	6	3	O	0
		VALVE	2	825	O	0
		VALVE	5	825	0	0
		VALVE	6	6	0	0
				<u>1,729</u>	<u>0</u>	<u>o</u>
EPAVV	SOUR					
		RELIEF	2	2	0	0
		RELIEF	5	2	0	0

		VALVE	2	53	0	0
		VALVE	5	53	0	0
				110	<u>o</u>	<u>0</u>
<u>EPAVV</u>	SOUTH TANK FARM					
		PUMP	1	28	0	0
		PUMP	2	29	0	0
		PUMP	3	29	0	0
		PUMP	4	29	0	0
		PUMP	5	29	0	0
		PUMP	6	29	0	0
		RELIEF	3	100	0	0
		RELIEF	5	1	0	0
		RELIEF	6	36	0	0
		VALVE	1	3	0	0
		VALVE	2	5	0	0
		VALVE	3	2,635	0	0
		VALVE	4	26	0	0
		VALVE	5	2	0	0
		VALVE	6	2,574	1	0
				<u>5,555</u>	1	<u>0</u>
EPAVV	<u>SRU</u>					
		RELIEF	1	3	0	0

		RELIEF	4	3	0	0
		VALVE	1	78	0	0
		VALVE	2	2	0	0
		VALVE	4	78	0	0
				164	<u>o</u>	<u>o</u>
EPAVV	TAIL GAS					
		RELIEF	1	3	0	0
		RELIEF	4	3	0	0
		VALVE	1	159	0	0
		VALVE	4	159	0	0
				<u>324</u>	<u>0</u>	<u>0</u>
EPAVV	<u>TF</u>					
		PUMP	1	10	0	0
		PUMP	2	10	0	0
		PUMP	3	10	0	0
		PUMP	4	10	0	0
		PUMP	5	10	0	0
		PUMP	6	10	0	0
		RELIEF	1	1	0	0
		RELIEF	4	1	0	0
		VALVE	3	889	0	0
		VALVE	6	872	0	0
				1,823	<u>0</u>	<u>o</u>

<u>EPAVV</u>	VACUUM		358			
		PUMP	1	2	0	0
		PUMP	2	2	0	0
		PUMP	3	2	0	0
		PUMP	4	2	0	0
		PUMP	5	2	0	0
		PUMP	6	2	0	0
		RELIEF	1	3	0	0
		RELIEF	4	3	0.	0
		VALVE	ī	494	1	0
		VALVE	2	2	0	0
		VALVE	3	1	o	0
		VALVE	4	494	0	0
		VALVE	6	1	0	0
				<u>1,010</u>	<u>1</u>	<u>o</u>
<u>EPAVV</u>	<u>vgo</u>					
		CONECT	1	3	0	0
		PUMP	1	1	0	0
		PUMP	2	1	0	0
		PUMP	3	1	0	0
		PUMP	4	1	0	0
		PUMP	5	1	0	0
		DUMP	-	9		

PUMP

		RELIEF	1	11	0	0
		RELIEF	4	11	0	0
		VALVE	1	620	0	0
		VALVE	2	4	0	0
		VALVE	3	4	0	0
		VALVE	4	618	1	0
		VALVE	5	2	0	0
		VALVE	6	3	0	0
				1,282	1	<u>o</u>
EPAVV	<u>WGS</u>					
		PUMP	1	4	0	0
		VALVE	1	1	0	0
				<u>5</u>	ō	<u>0</u>
Grand Total:				60,361	32	0
- and rotali						

MONROE ENERGY TRAINER REFINERY
NSPS EPAVV LDAR SEMI ANNUAL REPORT

ON DELAY OF REPAIR

REPORT DATE: JULY 7, 2016

TAG	UNIT	CLASS	ON DELAY
8029	544 VACUUM	RELIEF	1/14/2016
16169	ISOCRK	RELIEF	1/26/2016
			**************************************
		TOTAL:	2

MONROE ENERGY TRAINER REFINERY NSPS EPAVV LDAR SEMI ANNUAL REPORT

OFF DELAY OF REPAIR

REPORT DATE: JULY 7, 2016

TAG	AREA	COMPONENT	OFF DELAY
8029	544 VACUUM TOWER	RELIEF	4/26/2016
16169	ISOCRK	RELIEF	3/2/2016
11066A	PLATFORMER	CONNECTOR	3/2/2016
	<del>-  </del>		
		TOTAL:	3

#### MONROE ENERGY TRAINER REFINERY

#### NSPS EPAW LDAR SEMI ANNUAL REPORT

## ADDED AND DELETED

REPORT DATE: JULY 7, 2016

## REPORT PERIOD: JANUARY 1, 2016 THROUGH DECEMBER 31, 2016

UNTI	CLASS	ADDED	DELETE
543 CRUDE	PRESSURE RELIEF DEVICE	0	0
543 CRUDE	PUMP	0	0
543 CRUDE	VALVE	8	0
544 CRUDE	PRESSURE RELIEF DEVICE	0	Ō
544 CRUDE	PUMP	0	0
544 CRUDE	VALVE	16	10
544 VACUUM	PRESSURE RELIEF DEVICE	1	1
544 VACUUM	PUMP	Ö	0
544 VACUUM	VALVE	2	0
ALKY	CONNECTOR	0	0
ALKY	PRESSURE RELIEF DEVICE	0	1
ALKY	PUMP	0	0
ALKY	VALVE	85	16
AMINE	PRESSURE RELIEF DEVICE	0	
AMINE	PUMP	1	0
AMINE	VALVE	8	0
AWWTP	VALVE	0	0
BLEND	CONNECTOR	0	0
BLEND	PRESSURE RELIEF DEVICE	0	0
BLEND	PUMP		0
BLEND	VALVE	0	0
BOILER	PRESSURE RELIEF DEVICE	0	0
BOILER	VALVE	0	0
BUTANE	PRESSURE RELIEF DEVICE	0	0
BUTANE	VALVE	0	0
CRUDE	CONNECTOR	0	0
CRUDE	PRESSURE RELIEF DEVICE	0	0
CRUDE	PUMP	0	0
CRUDE	VALVE	0	0
DESALT		0	0
DESALT	CONNECTOR	0	0
DESALT	PRESSURE RELIEF DEVICE	0	0
	PUMP	0	0
DESALT	VALVE	2	2
DIESEL	COMPRESSOR	0	0
DIESEL	CONNECTOR	0	0
DIESEL	PRESSURE RELIEF DEVICE	0	0
DIESEL	PUMP	0	0
DIESEL	VALVE	0	0
FCC	COMPRESSOR	0	0
FCC	CONNECTOR	0	0
FCC	PRESSURE RELIEF DEVICE	10	3
FCC	PUMP	2	0
FCC	VALVE	539	126
FLARE	PUMP	0	0
FLARE	VALVE	0	1

ISOCRK	COMPRESSOR	0	0
ISOCRK	CONNECTOR	1	0
ISOCRK	PRESSURE RELIEF DEVICE	1	
ISOCRK		1	0
	PUMP	0	0
ISOCRK	VALVE	8	3
KERO	COMPRESSOR	0	0
KERO	CONNECTOR	0	0
KERO	PRESSURE RELIEF DEVICE		
KERO		0	0
	PUMP	0	0
KERO	VALVE	0	1
LOWLN	COMPRESSOR	0	0
LOWLN	CONNECTOR	0	0
LOWLN	PRESSURE RELIEF DEVICE	0	0
LOWLN	PUMP	0	
LOWLN	VALVE		0
MARINE		0	0
	COMPRESSOR	0	0
MARINE	CONNECTOR	0	0
MARINE	PRESSURE RELIEF DEVICE	0	0
MARINE	PUMP	0	0
MARINE	VALVE	0	6
NAPHTH	COMPRESSOR	1/5	
NAPHTH	CONNECTOR	0	0
NAPHTH		0	0
	PRESSURE RELIEF DEVICE	0	0
NAPHTH	PUMP	0	0
NAPHTH	VALVE	2	0
OYF	VALVE	0	0
PLATFO	COMPRESSOR	0	
PLATFO	CONNECTOR	0	0
PLATFO	PRESSURE RELIEF DEVICE		0
PLATFO		0	0
PLATFO	PUMP	0	0
	VALVE	6	6
PRORCL	CONNECTOR	0	0
PRORCL	PRESSURE RELIEF DEVICE	0	0
PRORCL	PUMP	0	0
PRORCL	VALVE	0	
PROREC	CONNECTOR		16
PROREC		0	0
PROREC	PRESSURE RELIEF DEVICE	0	0
	VALVE	0	0
PROSTO	CONNECTOR	0	0
PROSTO	PRESSURE RELIEF DEVICE	0	0
PROSTO	PUMP	0	0
PROSTO	VALVE	0	22
REFORM	CONNECTOR	0	
REFORM	PRESSURE RELIEF DEVICE		0
REFORM	PUMP	0	0
REFORM		0	0
	VALVE	1	0
SOUR	PRESSURE RELIEF DEVICE	0	0
SOUR	PUMP	0	0
SOUR	VALVE	0	0
SOUTH TANK FARM	COMPRESSOR	0	0
SOUTH TANK FARM	CONNECTOR	0	
SOUTH TANK FARM	PRESSURE RELIEF DEVICE		0
SOUTH TANK FARM		13	4
SOUTH TANK FARM	PUMP	0	0
	VALVE	106	119
SRU	COMPRESSOR	0	0

SRU	PRESSURE RELIEF DEVICE	0	0
SRU	VALVE	0	0
SUNOL	CONNECTOR	0	0
SUNOL	PRESSURE RELIEF DEVICE	0	0
SUNOL	VALVE	0	0
TAIL GAS	PRESSURE RELIEF DEVICE	0	0
TAIL GAS	VALVE	0	0
TF	CONNECTOR	0	0
TF	PRESSURE RELIEF DEVICE	0	0
TF	PUMP	0	0
TF	VALVE	2	7
VACUUM	CONNECTOR	0	0
VACUUM	PRESSURE RELIEF DEVICE	0	0
VACUUM	PUMP	0	0
VACUUM	VALVE	0	0
VGO	COMPRESSOR	0	0
VGO	CONNECTOR	0	0
VGO	PRESSURE RELIEF DEVICE	0	0
VGO	PUMP	0	0
VGO	VALVE	0	1
	TOTAL:	814	373

	a		

# MONROE ENERGY TRAINER REFINERY REFMACT (REFMACT/EPAVV RULE) SEMI ANNUAL REPORT

SUMMARY

REPORT DATE: JULY 7, 2016

REPORT PERIOD: JANUARY 1, 2016 - JUNE 30, 2016

REFMACT (HAP) UNITS IN BLUE

REGULATION UNIT	CLASS	MONTH	MONITORED	LEAKED	LATE
REFMACT/EPAVV 543 CRUDE					
	PUMP	1	4	0	0
	PUMP	2	4	0	0
	PUMP	3	4	0	0
	PUMP	4	4	0	0
	PUMP	5	4	0	0
	PUMP	6	4	0	0
	RELIEF	2	8	0	0
	RELIEF	5	8	0	0
	RELIEF	6	22	0	0
	VALVE	1	6	0	0
	VALVE	2	1,071	0	0
	VALVE	5	1,079	0	0
	VALVE	6	21	0	0
			2,239	<u>0</u>	<u>o</u>
EFMACT/EPAVV 544 CRUDE					
	PUMP	1	15	0	0
	PUMP	2	15	0	0
	PUMP	3	15	0	0

		PUMP	4	15	0	0
		PUMP	5	15	0	0
		PUMP	6	15	0	0
		RELIEF	2	8	0	0
		RELIEF	5	8	0	0
		RELIEF	6	10	0	0
		VALVE	1	11	0	0
		VALVE	2	1,170	2	0
		VALVE	3	13	0	0
		VALVE	4	15	0	0
		VALVE	5	1,180	0	0
		VALVE	6	19	0	0
				2,524	2	<u>o</u>
REFMACT/EPAVV	544 VACUUM					
		PUMP	1	2	0	0
		PUMP	2	2	0	0
		PUMP	3	2	0	0
		PUMP	4	2	0	0
		PUMP	5	2	0	0
		PUMP	6	2	0	0
		RELIEF	1	1	1	<sup>0</sup> DOR
		RELIEF	2	7	0	0

	RELIEF	3	1	0	0
	RELIEF				
	RELIEF	4 5	7	0	0
					· ·
	RELIEF	6	9	0	0
	VALVE	1	1	0	0
	VALVE	2	392	0	0
	VALVE	5	392	0	0
	VALVE	6	5	0	0
			829	1	<u>o</u>
REFMACT/EPAVV ALKY					
	PUMP	1	28	0	0
	PUMP	2	28	0	0
	PUMP	3	28	0	0
	PUMP	4	28	0	0
	PUMP	5	28	0	0
	PUMP	6	28	0	0
	RELIEF	2	38	0	0
	RELIEF	5	38	0	0
	RELIEF	6	9	0	0
	VALVE	1	12	0	0
	VALVE	2	3,405	5	0
	VALVE	3	79	0	0
	VALVE	4	5	0	0

		VALVE	5	3,404	2	0
		VALVE	6	25	0	0
				<u>7,183</u>	7	<u>0</u>
REFMACT/EPAVV	AMINE					
		PUMP	1	1	0	0
		PUMP	2	2	0	0
		PUMP	3	2	0	0
		PUMP	4	2	0	0
		PUMP	5	2	0	0
		PUMP	6	2	0	0
		RELIEF	1	6	0	0
		RELIEF	4	6	0	0
		VALVE	1	349	0	0
		VALVE	2	8	0	0
		VALVE	3	8	0	0
		VALVE	4	357	0	0
REFMACT/EPAVV	<u>AWWTP</u>			<u>745</u>	<u>0</u>	<u>o</u>
		VALVE	1	140	0	0
		VALVE	4	140	0	0
				280	<u>o</u>	<u>o</u>
REFMACT/EPAVV	BLEND					
		PUMP	1	16	0	0
		PUMP	2	16	0	0

		PUMP	3	16	0	0
		PUMP	4	16	0	0
		PUMP	5	16	0	0
		PUMP	6	16	0	0
		RELIEF	1	16	0	0
		RELIEF	4	16	0	0
		RELIEF	6	18	0	0
		VALVE	1	1,261	0	0
		VALVE	4	1,261	0	0
		VALVE	5	1	0	0
				2,669	<u>0</u>	<u>0</u>
REFMACT/EPAVV	BOILER					
REFMACT/EPAVV	BOILER	RELIEF	2	1	0	0
REFMACT/EPAVV	BOILER	RELIEF RELIEF	2	1	0	0
REFMACT/EPAVV	BOILER					
REFMACT/EPAVV	BOILER	RELIEF	3	1	0	0
REFMACT/EPAVV	BOILER	RELIEF	3 6	1	0	0
REFMACT/EPAVV	BOILER	RELIEF  RELIEF  VALVE	3 6 2	1 1 78	0 0	0
		RELIEF  RELIEF  VALVE  VALVE	3 6 2 3	1 1 78 78	0 0 0	0 0
REFMACT/EPAVV	BUTANE	RELIEF  RELIEF  VALVE  VALVE	3 6 2 3	1 78 78 78	0 0 0	0 0 0
		RELIEF  RELIEF  VALVE  VALVE	3 6 2 3	1 78 78 78	0 0 0	0 0 0
		RELIEF  VALVE  VALVE  VALVE	3 6 2 3 6	1 78 78 78 237	0 0 0 0	0 0 0 0 <u>0</u>

	RELIEF	6	2	0	0
	VALVE	2	298	1	0
	VALVE	3	1	0	0
	VALVE	4	1	0	0
	VALVE	5	298	0	0
			<u>614</u>	1	<u>0</u>
REFMACT/EPAVV DESALT					
	PUMP	1	10	0	0
	PUMP	2	10	0	0
	PUMP	3	10	0	0
	PUMP	4	10	0	0
	PUMP	5	10	0	0
	PUMP	6	10	0	0
	RELIEF	1	12	0	0
	RELIEF	4	12	0	0
	RELIEF	6	9	0	0
	VALVE	1	815	0	0
	VALVE	2	2	0	0
	VALVE	4	811	0	0
	VALVE	6	8	0	0
			1,729	<u>o</u>	<u>0</u>

REFMACT/EPAVV DIESEL

PUMP 1 11 0 0

		PUMP	2	11	0	0
		PUMP	3	11	0	0
		PUMP	4	11	0	0
		PUMP	5	11	0	0
		PUMP	6	11	0	0
		RELIEF	1	9	. 0	0
		RELIEF	4	9	0	0
		RELIEF	6	7	0	0
		VALVE	1	792	1	0
		VALVE	2	1	0	0
		VALVE	3	1	0	0
		VALVE	4	792	0	0
		VALVE	6	6	0	0
				1,683	1	<u>o</u>
REFMACT/EPAVV	FCC					
		PUMP	1	19	0	0
		PUMP	2	23	0	0
		PUMP	3	23	0	0
		PUMP	4	25	0	0
		PUMP	5	25	0	0
		PUMP	6	25	0	0
		RELIEF	2	25	0	0
		RELIEF	3	2	0	0

		RELIEF	5	33	0	0
		RELIEF	6	8	0	0
		VALVE	2	1,965	1	0
		VALVE	3	111	0	0
		VALVE	4	434	0	0
		VALVE	5	2,283	0	0
		VALVE	6	13	0	0
				<u>5,014</u>	1	<u>0</u>
REFMACT/EPAVV	FLARE					
		PUMP	1	3	0	0
		PUMP	2	3	0	0
						0
		PUMP	3	3	0	0
		PUMP	4	3	0	0
		PUMP	5	3	0	0
		PUMP	6	3	0	0
		VALVE	1	3	0	0
		VALVE	3	221	0	0
		VALVE	6	221	0	0
				<u>463</u>	<u>0</u>	<u>0</u>
REFMACT/EPAVV	ISOCRK					
		COMPR	1	1	0	0
		COMPR	2	1	0	0
		COMPR	3	1	0	0

COMPR	4	1	0	0
COMPR	5	1	0	0
COMPR	6	1	0	0
CONECT	1	1	0	0
CONECT	3	1	1	0
PUMP	1	18	0	0
PUMP	2	18	0	0
PUMP	3	18	0	0
PUMP	4	18	0	0
PUMP	5	18	0	0
PUMP	6	18	0	0
RELIEF	1	57	1	0 DOR
RELIEF	2	2	0	0
RELIEF	3	1	0	0
RELIEF	4	56	0	0
RELIEF	6	4	0	0
VALVE	1	3,112	2	0
VALVE	2	13	0	0
VALVE	3	17	0	0
VALVE	4	3,119	1	0
VALVE	5	6	0	0
VALVE	6	10	0	0

DEEMACTIEDANS				<u>6,513</u>	<u>5</u>	<u>0</u>
REFMACT/EPAVV	<u>KERO</u>	8				
		PUMP	1	9	0	0
		PUMP	2	9	0	0
		PUMP	3	9	0	0
		PUMP	4	9	0	0
		PUMP	5	9	0	0
		PUMP	6	9	0	0
		RELIEF	1	31	0	0
		RELIEF	4	30	0	0
		RELIEF	6	8	0	0
		VALVE	1	1,520	0	0
		VALVE	4	1,520	0	0
		VALVE	5	1	0	0
		VALVE	6	22	0	0
REFMACT/EPAVV	LOWLN			<u>3,186</u>	<u>0</u>	<u>0</u>
		PUMP	1	6	0	0
		PUMP	2	6	0	0
		PUMP	3	6	0	0
		PUMP	4	6	0	0
		PUMP	5	6	0	0
		PUMP	6	6	0	0
		RELIEF	1	6	0	0

		RELIEF	4	6	0	0
		VALVE	1	577	0	0
		VALVE	4	574	0	0
		VALVE	6	2	0	0
DEEMACT/EDAMA	MADINE			<u>1,201</u>	<u>0</u>	<u>0</u>
REFMACT/EPAVV	MARINE					
		RELIEF	2	8	0	0
		RELIEF	5	8	0	0
		RELIEF	6	1	0	0
		VALVE	2	185	0	0
		VALVE	5	179	0	0
		VALVE	6	29	0	0
				<u>410</u>	<u>o</u>	<u>o</u>
REFMACT/EPAVV	<u>NAPHTH</u>			<u>410</u>	<u>o</u>	<u>o</u>
REFMACT/EPAVV	<u>NAPHTH</u>	PUMP	1	<b>410</b> 16	<u>o</u>	<u>o</u> o
REFMACT/EPAVV	<u>NAPHTH</u>	PUMP PUMP	1 2			
REFMACT/EPAVV	<u>NAPHTH</u>			16	0	0
REFMACT/EPAVV	<u>NAPHTH</u>	PUMP	2	16 16	0	0
REFMACT/EPAVV	<u>NAPHTH</u>	PUMP PUMP	3	16 16 16	0 0	0 0
REFMACT/EPAVV	NAPHTH	PUMP PUMP	2 3 4	16 16 16	0 0 0	0 0 0
REFMACT/EPAVV	NAPHTH	PUMP PUMP PUMP	2 3 4 5	16 16 16 16	0 0 0	0 0 0 0
REFMACT/EPAVV	NAPHTH	PUMP PUMP PUMP PUMP	2 3 4 5	16 16 16 16 16	0 0 0 0	0 0 0 0
REFMACT/EPAVV	NAPHTH	PUMP PUMP PUMP PUMP RELIEF	2 3 4 5 6	16 16 16 16 16	0 0 0 0 0	0 0 0 0

		VALVE	2	2	0	0
		VALVE	3	1,506	3	0
		VALVE	4	4	0	0
		VALVE	5	4	0	0
		VALVE	6	1,517	0	0
				<u>3,164</u>	<u>3</u>	<u>o</u>
REFMACT/EPAVV	<u>PLATFO</u>					<u> </u>
		COMPR	1	1	0	0
		COMPR	2	1	0	0
		COMPA				
		COMPR	3	1	0	0
		COMPR	4	1	0	0
		COMPR	5	1	0	0
		COMPR	6	1	0	0
		CONECT	1	1	0	
					U	0
		CONECT	2	1	0	0
		CONECT	3	1	0	0
		PUMP	1	10	0	0
		PUMP	2	10	0	0
		DUMP				
		PUMP	3	10	0	0
		PUMP	4	10	0	0
		PUMP	5	10	0	0
		PUMP	6	10	0	0
		RELIEF	3			
				30	0	0
		RELIEF	6	30	0	0

		VALVE	1	5	0	0
		VALVE	2	5	0	0
		VALVE	3	2,196	0	0
		VALVE	4	11	0	0
		VALVE	5	10	0	0
		VALVE	6	2,197	0	0
				4,553	<u>o</u>	<u>0</u>
REFMACT/EPAVV	PRORCL					-
		PUMP	1	1	0	0
		PUMP	2	1	0	0
		PUMP	3	1	0	0
		PUMP	4	1	0	0
		PUMP	5	1	0	0
		PUMP	6	1	0	0
		RELIEF	3	3	0	0
		RELIEF	6	3	0	0
		VALVE	1	1	0	0
		VALVE	2	1	0	0
		VALVE	3	313	2	0
		VALVE	4	2	0	0
		VALVE	5	2	0	0
		VALVE	6	313	0	0
				<u>644</u>	<u>2</u>	<u>0</u>

REFMACT/EPAVV PI	ROREC
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		RELIEF	2	12	0	0
		RELIEF	5	12	0	0
		RELIEF	6	- 1	0	0
		VALVE	2	644	1	0
		VALVE	3	1	0	0
		VALVE	4	Ť	0	0
		VALVE	5	644	4	0
		VALVE	6	4	0	0
				<u>1,319</u>	<u>5</u>	<u>o</u>
REFMACT/EPAVV	PROSTO					
		PUMP	1	6	0	0
		PUMP	2	6	0	0
		PUMP	3	6	0	0
		PUMP	4	6	0	0
		PUMP	5	6	0	0
		PUMP	6	6	0	0
		RELIEF	1	21	0	0
		RELIEF	4	20	0	0
		RELIEF	6	1	0	0
		VALVE	1	540	1	0
		VALVE	2	2	0	0

		VALVE	3	1	0	0
		VALVE	4	539	0	0
				<u>1,160</u>	1	<u>0</u>
REFMACT/EPAVV	REFORM					
		PUMP	1	8	0	0
		PUMP	2	8	0	0
		PUMP	3	8	0	0
		PUMP	4	8	0	0
		PUMP	5	8	0	0
		PUMP	6	8	0	0
		RELIEF	2	11	0	0
		RELIEF	5	11	0	0
		RELIEF	6	3	0	0
		VALVE	2	825	0	0
		VALVE	5	825	0	0
		VALVE	6	6	0	0
				1,729	<u>0</u>	<u>0</u>
REFMACT/EPAVV	SOUR					
		RELIEF	2	2	0	0
		RELIEF	5	2	0	0
		VALVE	2	53	0	0
		VALVE	5	53	0	0
				<u>110</u>	<u>o</u>	<u>0</u>

REFMACT/EPAVV	SOUTH TANK FARM					
		PUMP	1	28	0	0
		PUMP	2	29	0	0
		PUMP	3	29	0	0
		PUMP	4	29	0	0
		PUMP	5	29	0	0
		PUMP	6	29	0	0
		RELIEF	3	100	0	0
		RELIEF	5	1	0	0
		RELIEF	6	36	0	0
		VALVE	1	3	0	0
		VALVE	2	5	0	0
		VALVE	3	2,635	0	0
		VALVE	4	26	0	0
		VALVE	5	2	0	0
		VALVE	6	2,574	1	0
				<u>5,555</u>	1	<u>0</u>
REFMACT/EPAVV	SRU					
		RELIEF	1	3	0	0
		RELIEF	4	3	0	0
		VALVE	1	78	0	0
		VALVE	2	2	0	0
		VALVE	4	78	0	0

				<u>164</u>	<u>0</u>	<u>0</u>
REFMACT/EPAVV	TAIL GAS					
		RELIEF	1	3	0	0
		RELIEF	4	3	0	0
		VALVE	1	159	0	0
		VALVE	4	159	0	0
				<u>324</u>	<u>0</u>	<u>0</u>
REFMACT/EPAVV	<u>TF</u>					
		PUMP	1	10	0	0
		РИМР	2	10	0	0
		PUMP	3	10	0	0
		PUMP	4	10	0	0
		PUMP	5	10	0	0
		PUMP	6	10	0	0
		RELIEF	1	1	0	0
		RELIEF	4	1	0	0
		VALVE	3	889	0	0
		VALVE	6	872	0	0
				1,823	<u>o</u>	<u>0</u>
REFMACT/EPAVV	VACUUM					
		PUMP	1	2	0	0
		PUMP	2	2	0	0
		PUMP	3	2	0	0

		PUMP	4	2	0	0
		PUMP	5	2	0	0
		PUMP	6	2	0	0
		RELIEF	1	3	0	0
		RELIEF	4	3	0	0
		VALVE	1	494	1	0
		VALVE	2	2	0	0
		VALVE	3	1	0	0
		VALVE	4	494	0	0
		VALVE	6	1	0	0
				1,010	1	<u>0</u>
REFMACT/EPAVV	<u>VGO</u>					
	<u>voo</u>					
	<u>vao</u>	CONECT	1	3	0	0
	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	CONECT	1	3	0	0
	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>					
	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	PUMP	1	1	0	0
	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	PUMP	1 2	1	0	0
	<u>, , , , , , , , , , , , , , , , , , , </u>	PUMP PUMP	1 2 3	1 1	0 0 0	0 0 0
	<u>, , , , , , , , , , , , , , , , , , , </u>	PUMP PUMP PUMP	1 2 3 4	1 1 1	0 0 0	0 0 0
	<u>voo</u>	PUMP PUMP PUMP PUMP	1 2 3 4 5	1 1 1 1	0 0 0 0	0 0 0
	<u>, , , , , , , , , , , , , , , , , , , </u>	PUMP PUMP PUMP PUMP PUMP	1 2 3 4 5	1 1 1 1	0 0 0 0	0 0 0

		VALVE	2	4	0	0
		VALVE	3	4	0	0
		VALVE	4	618	1	0
		VALVE	5	2	0	0
		VALVE	6	3	0	0
				<u>1,282</u>	1	<u>0</u>
REFMACT/EPAVV	<u>WGS</u>					
		PUMP	1	4	0	0
		VALVE	1	1	0	0
				<u>5</u>	<u>0</u>	<u>0</u>

TOTAL: 49,443 23 0

## MONROE ENERGY TRAINER REFINERY REFMACT (EPAVV RULE) SEMI ANNUAL REPORT

ON DELAY OF REPAIR

REPORT DATE: JULY 7, 2016

REFMACT (HAP) UNITS IN BLUE

REPORT PERIOD: JANUARY 1, 2016 THRU JUNE 30, 2016

TAG	UNIT	CLASS	ON DELAY
8029	544 VACUUM	RELIEF	1/14/2016
16169	ISOCRK	RELIEF	1/26/2016
		TOTAL:	2

# MONROE ENERGY TRAINER REFINERY REFMACT (EPAVV RULE) SEMI ANNUAL REPORT OFF DELAY OF REPAIR

REPORT DATE: JULY 7, 2016

REPORT PERIOD: JANUARY 1, 2016 THRU JUNE 30, 2016

## REFMACT (HAP) UNITS IN BLUE

TAG	AREA	COMPONENT	OFF DELAY
8029	544 VACUUM TOWER	RELIEF	4/26/2016
16169	ISOCRK	RELIEF	3/2/2016
11066A	PLATFORMER	CONNECTOR	3/2/2016
-			
		TOTAL:	3

## MONROE ENERGY TRAINER REFINERY

#### REFMACT/WRMACT UNITS LDAR SEMI ANNUAL REPORT

#### ADDED AND DELETED

### REFMACT UNITS IN BLUE

REPORT DATE: JULY 7, 2016

REPORT PERIOD: JANUARY 1, 2016 THROUGH JUNE 30, 2016

UNTI	CLASS	ADDED	DELETE
543 CRUDE	PRESSURE RELIEF DEVICE	0	0
543 CRUDE	PUMP	0	0
543 CRUDE	VALVE	8	0
544 CRUDE	PRESSURE RELIEF DEVICE	0	0
544 CRUDE	PUMP	0	0
544 CRUDE	VALVE	16	10
544 VACUUM	PRESSURE RELIEF DEVICE	1	1
544 VACUUM	PUMP	0	0
544 VACUUM	VALVE	2	0
ALKY	CONNECTOR	0	0
ALKY	PRESSURE RELIEF DEVICE	0	1
ALKY	PUMP	0	0
ALKY	VALVE	85	16
AMINE AMINE	PRESSURE RELIEF DEVICE	0	0
AMINE	PUMP	1	0
AWWTP	VALVE	8	0
BLEND	VALVE CONNECTOR	0	0
BLEND	PRESSURE RELIEF DEVICE	0	0
BLEND	PUMP	0	0
BLEND	VALVE	0	0
BOILER	PRESSURE RELIEF DEVICE	0	0
BOILER	VALVE	0	0
BUTANE	PRESSURE RELIEF DEVICE	0	0
BUTANE	VALVE	0	0
CRUDE	CONNECTOR	0	0
CRUDE	PRESSURE RELIEF DEVICE	0	0
CRUDE	PUMP	0	0
CRUDE	VALVE	0	0
DESALT	CONNECTOR	0	0
DESALT	PRESSURE RELIEF DEVICE	0	0
DESALT	PUMP	0	0
DESALT	VALVE	2	2
DIESEL	COMPRESSOR	0	0
DIESEL	CONNECTOR	0	0
DIESEL	PRESSURE RELIEF DEVICE	0	0
DIESEL	PUMP	0	0
DIESEL	VALVE	0	0
FCC FCC	COMPRESSOR	0	0
FCC	CONNECTOR	0	0
FCC	PRESSURE RELIEF DEVICE PUMP	10	3
FCC	VALVE	2	0
FLARE	PUMP	539	126
FLARE	VALVE	0	0
I Left MALE	VALVE	0	1

10.00			
ISOCRK	COMPRESSOR	0	0
ISOCRK	CONNECTOR	1	0
ISOCRK	PRESSURE RELIEF DEVICE	1	0
ISOCRK	PUMP	0	0
ISOCRK	VALVE	8	3
KERO	COMPRESSOR	0	0
KERO	CONNECTOR	34 g7/	
KERO	PRESSURE RELIEF DEVICE	0	0
KERO	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	0
KERO	PUMP	0	0
	VALVE	0	1
LOWLN	COMPRESSOR	0	0
LOWLN	CONNECTOR	0	0
LOWLN	PRESSURE RELIEF DEVICE	0	0
LOWLN	PUMP	0	0
LOWLN	VALVE	0	0
MARINE	COMPRESSOR	0	0
MARINE	CONNECTOR	0	0
MARINE	PRESSURE RELIEF DEVICE	0	0
MARINE	PUMP	0	0
MARINE	VALVE	0	6
NAPHTH	COMPRESSOR	0	
NAPHTH	CONNECTOR		0
NAPHTH	PRESSURE RELIEF DEVICE	0	0
NAPHTH		0	0
	PUMP	0	0
NAPHTH	VALVE	2	0
OYF	VALVE	0	0
PLATFO	COMPRESSOR	0	0
PLATFO	CONNECTOR	0	0
PLATFO	PRESSURE RELIEF DEVICE	0	0
PLATFO	PUMP	0	0
PLATFO	VALVE	6	6
PRORCL	CONNECTOR	0	0
PRORCL	PRESSURE RELIEF DEVICE	0	0
PRORCL	PUMP	0	0
PRORCL	VALVE	0	16
PROREC	CONNECTOR	0	0
PROREC	PRESSURE RELIEF DEVICE	0	0
PROREC	VALVE	0	0
PROSTO	CONNECTOR	0	0
PROSTO	PRESSURE RELIEF DEVICE	0	0
PROSTO	PUMP	0	0
PROSTO	VALVE	0	
REFORM	CONNECTOR		22
REFORM		0	0
REFORM	PRESSURE RELIEF DEVICE	0	0
	PUMP	0	0
REFORM	VALVE	300501	0
SOUR	PRESSURE RELIEF DEVICE	0	0
SOUR	PUMP	0	0
SOUR	VALVE	0	0
SOUTH TANK FARM	COMPRESSOR	0	0
SOUTH TANK FARM	CONNECTOR	0	0
SOUTH TANK FARM	PRESSURE RELIEF DEVICE	13	4
SOUTH TANK FARM	PUMP	0	0
SOUTH TANK FARM	VALVE	106	119
SRU	COMPRESSOR	0	0

SRU	PRESSURE RELIEF DEVICE	0	0
SRU	VALVE	0	0
SUNOL	CONNECTOR	0	0
SUNOL	PRESSURE RELIEF DEVICE	0	0
SUNOL	VALVE	0	0
TAIL GAS	PRESSURE RELIEF DEVICE	0	0
TAIL GAS	VALVE	0	0
TF	CONNECTOR	0	0
TF	PRESSURE RELIEF DEVICE	0	0
TF	PUMP	0	0
TF	VALVE	2	7
VACUUM	CONNECTOR	0	0
VACUUM	PRESSURE RELIEF DEVICE	0	0
VACUUM	PUMP	0	0
VACUUM	VALVE	0	0
VGO	COMPRESSOR	0	0
VGO	CONNECTOR	0	0
VGO	PRESSURE RELIEF DEVICE	0	0
VGO	PUMP	0	0
VGO	VALVE	0	1
	TOTAL:	814	373